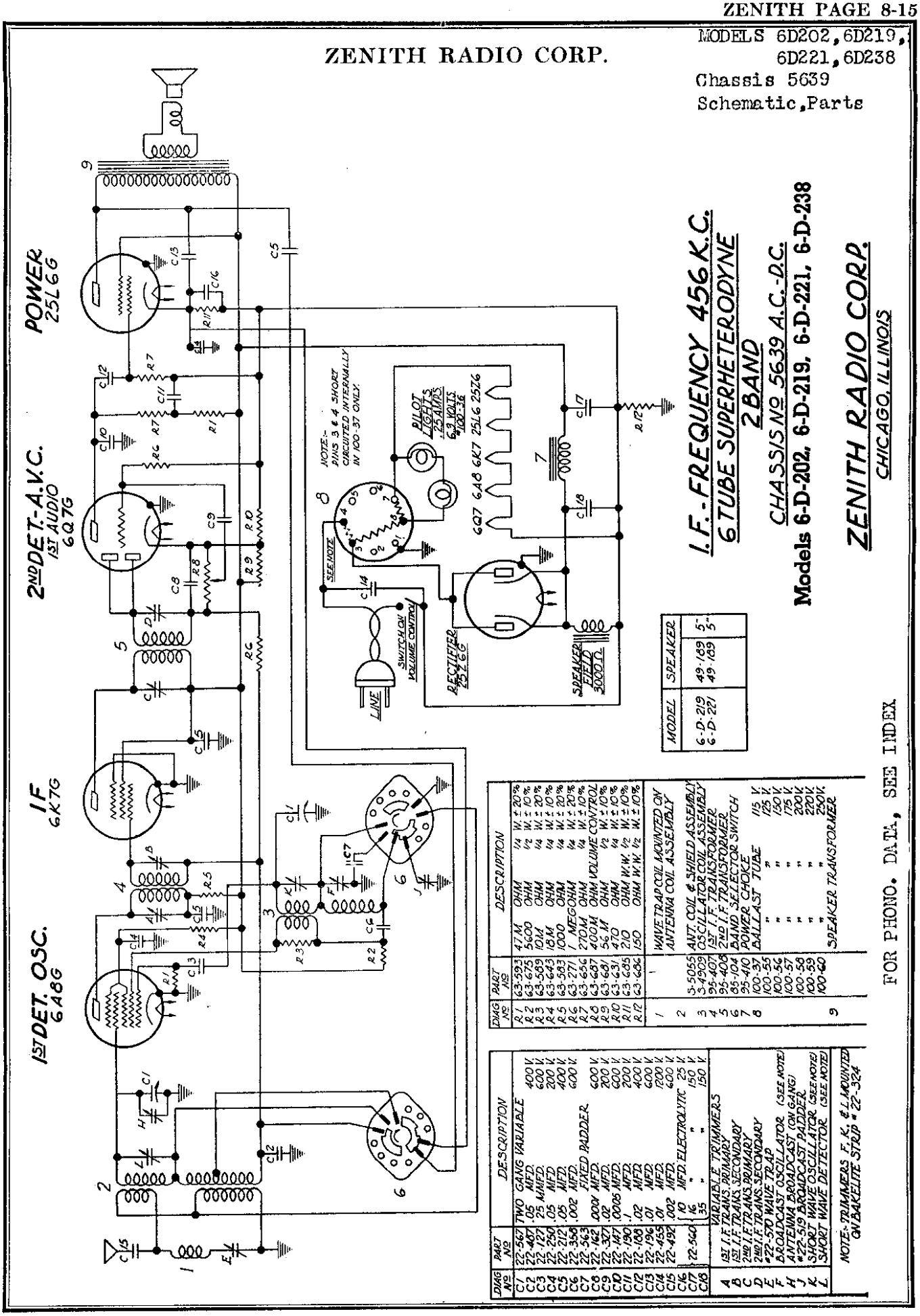
ZENITH RADIO CORP.

MODELS 6D202, 6D219, 6D221, 6D238
Chassis 5639
Schematic, Parts



MODEL	SPEAKER	
6-D-219 6-D-221	49-1189 49-1189	5" 5"

I.F. FREQUENCY 456 K.C.
6 TUBE SUPERHETERODYNE
2 BAND
CHASSIS No. 5639 A.C.-D.C.
Models 6-D-202, 6-D-219, 6-D-221, 6-D-238

ZENITH RADIO CORP.
CHICAGO, ILLINOIS

FOR PHONO. DATA, SEE INDEX

DIAG No.	PART No.	DESCRIPTION
C1	22-567	TWO GANG VARIABLE 400 V.
C2	22-407	.05 MFD. 600 V.
C3	22-127	.25 MMFD. 200 V.
C4	22-250	.05 MFD. 400 V.
C5	22-212	.05 MFD. 600 V.
C6	22-356	.002 MFD. FIXED PADDER 600 V.
C7	22-563	
C8	22-162	.0001 MFD. 600 V.
C9	22-327	.02 MFD. 200 V.
C10	22-147	.0005 MFD. 600 V.
C11	22-190	.1 MFD. 200 V.
C12	22-108	.02 MFD. 400 V.
C13	22-196	.01 MFD. 600 V.
C14	22-453	.01 MFD. 200 V.
C15	22-492	.002 MFD. 600 V.
C16	22-560	MFD. ELECTROLYTIC 25 V.
C17		10 " 150 V.
C18		16 "
		35 "
A		VARIABLE TRIMMERS
B		1ST I.F. TRANS. PRIMARY
C		1ST I.F. TRANS. SECONDARY
D		2ND I.F. TRANS. PRIMARY
E		2ND I.F. TRANS. SECONDARY
F		#22-570 WAVE TRAP
H		BROADCAST OSCILLATOR (SEE NOTE)
J		ANTENNA BROADCAST (ON GANG)
K		#22-569 BROADCAST PADDER
L		SHORT WAVE OSCILLATOR (SEE NOTE)
		SHORT WAVE DETECTOR (SEE NOTE)

NOTE- TRIMMERS F, K, & L MOUNTED ON BAKELITE STRIP # 22-324

DIAG No.	PART No.	DESCRIPTION
R1	63-593	47 M. OHM 1/4 W. ± 20%
R2	63-675	5600 OHM 1/2 W. ± 10%
R3	63-569	10 M. OHM 1/4 W. ± 10%
R4	63-643	1.8 M. OHM 1/4 W. ± 10%
R5	63-583	1000 OHM 1/4 W. ± 20%
R6	63-271	1 MEGOHM 1/4 W. ± 20%
R7	63-656	270 M. OHM 1/4 W. ± 10%
R8	63-687	400 M. OHM VOLUME CONTROL
R9	63-681	56 M. OHM 1/2 W. ± 10%
R10	63-631	470 OHM 1/4 W. ± 10%
R11	63-685	210 OHM W.W. 1/2 W. ± 10%
R12	63-686	150 OHM W.W. 1/2 W. ± 10%
1	1	WAVE TRAP COIL MOUNTED ON ANTENNA COIL ASSEMBLY
2	3-5055	ANT. COIL & SHIELD ASSEMBLY
3	3-4909	OSCILLATOR COIL ASSEMBLY
4	95-407	1ST I.F. TRANSFORMER
5	95-408	2ND I.F. TRANSFORMER
6	95-104	BAND SELECTOR SWITCH
7	95-410	POWER CHOKE
8	100-37	BALLAST TUBE 115 V.
	100-55	" 125 V.
	100-56	" 150 V.
	100-57	" 175 V.
	100-58	" 200 V.
	100-59	" 220 V.
	100-60	" 250 V.
9		SPEAKER TRANSFORMER

MODELS 6D202, 6D219
6D221, 6D238
Chassis 5639

ZENITH RADIO CORP.

Voltage, Alignment
Socket, Trimmers

SOCKET VOLTAGES

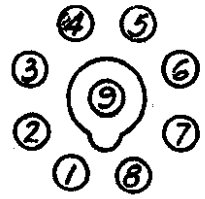
Tube	Position	1	2	3	4	5	6	7	8	9
6A8	Converter Osc.	0	AC	102	55	—1	85	AC	0	—.1
6K7	I.F.	0	AC	104	104	0	—	AC	0	—.1
6Q7	2nd Det. AVC 1st Audio	0	AC	24	—1	—1	—	AC	—1	—1
25L6	Power	0	AC	94	104	—.5	—	AC	—4	—
25Z6	Rect.	0	AC	AC	119	AC	—	AC	119	—
	Ballast									

All voltages measured from point indicated to ground using a 1000 Ohm per Volt meter, antenna and ground disconnected. Line voltage 117V. Consumption 55W. Power output 1.75W.

ALIGNMENT PROCEDURE

Operation	Connect Test Oscillator to—	Dummy Antenna	Set Test Osc. to	Band	Set Dial At	Adjust Trimmers	Purpose
1	1st Det. Grid	1/2 Mfd.	456	Br'dc't	600	ABCD	I. F. Alignment
2	Rec. Ant. Lead	200 Mmfd.	456	"	600	E	See Note
3	" " "	200 Mmfd.	1500	"	1500	F	Set Osc. to Scale
4	" " "	200 Mmfd.	1500	"	1500	G	Al'gment of Ant.
5	" " "	200 Mmfd.	600	"	600	J	Rock gang & adj. for max. output
6						FG	Repeat 3 & 4
7	" " "	400 Ohms	18000	S.W.	18000	K	Set Osc. to Scale
8	" " "	400 Ohms	16500	S.W.	16500	L	Rock gang & adj. for max. output

NOTE: If receiver is used in a location subject to code interference adjust wave trap (E) for minimum interference with antenna connected and receiver operating in broadcast band.



BOTTOM VIEW OF SOCKET

LOCATION OF TRIMMERS